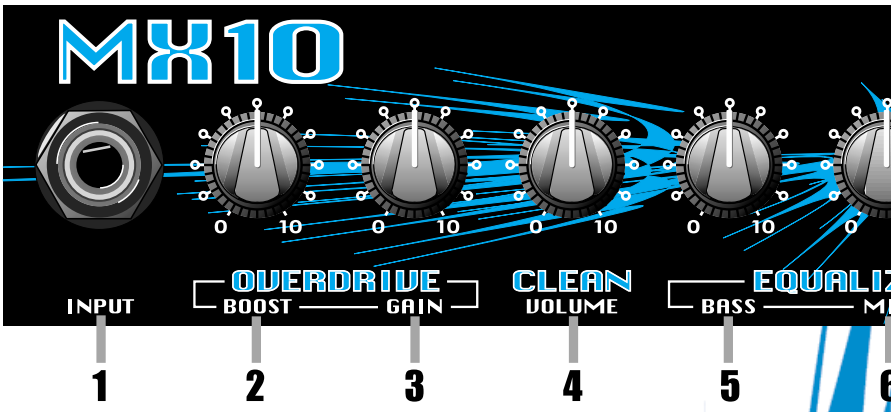
Owner's Guide

for the

CRATE MX10

Guitar Amplifier



1: INPUT: Connect your guitar to this 1/4" jack by means of a shielded instrument cable.

2: OVERDRIVE BOOST: Use this control to increase the volume and add "crunch" to your sound. This control is only active when the Overdrive Gain control (#3) is turned up. (For more information please see the "Getting Your Sound" section to the right.)

3: OVERDRIVE GAIN: Use this control in conjunction with the Overdrive Boost control (#2) to add distortion to your sound. (For more information please see the "Getting Your Sound" section to the right.)

4: CLEAN VOLUME: Use this control to set the overall output level of the amp. (For more information please see the "Getting Your Sound" section to the right.)

5: BASS: Use this control to adjust the low frequency output level of the amplifier. Rotating this control counter clockwise reduces the low frequency output; rotating it to the right increases it.

6: MID: Use this control to adjust the midrange frequency output level of the amplifier. Rotating this control counter clockwise reduces the midrange frequency output; rotating it to the right increases it.

7: TREBLE: Use this control to adjust the high frequency output level of the amplifier. Rotating this control counter clockwise reduces the high frequency output; rotating it to the right increases it.

8: INSERT: Use this 1/4" jack to connect an external effects to the amplifier. Use a stereo 1/4" male Y-cord: ring = send, tip = return, sleeve = ground. Send goes to the effect's input; return comes from its output. (See the illustration on the panel to the right for more information.)

9: HEADPHONES: Use this 1/4" jack to connect a pair of stereo headphones for private listening. The external speaker is disconnected when headphones are in use.

10: POWER LED: This LED will illuminate when power is applied to the amplifier.

11: POWER SWITCH: Use this switch to turn the amplifier on and off.

12: AC LINE IN: (Rear panel, not shown) The grounded power cord should only be plugged into a grounded power outlet that meets all applicable electrical codes and is compatible with the voltage, power, and frequency requirements stated on the rear panel. **Do not attempt to defeat the safety ground connection.**

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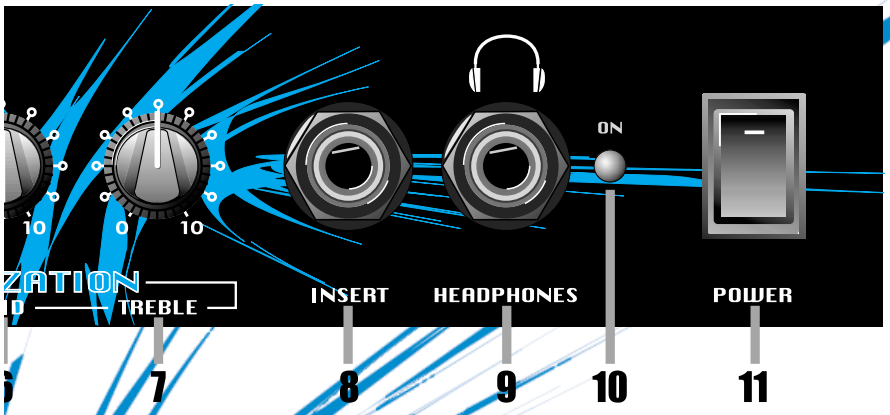


Getting Your Sound: The Boost, Gain and Volume controls (#2, 3 & 4) can be used together to create a wide variety of sounds. The following guidelines will help you achieve your desired sound.

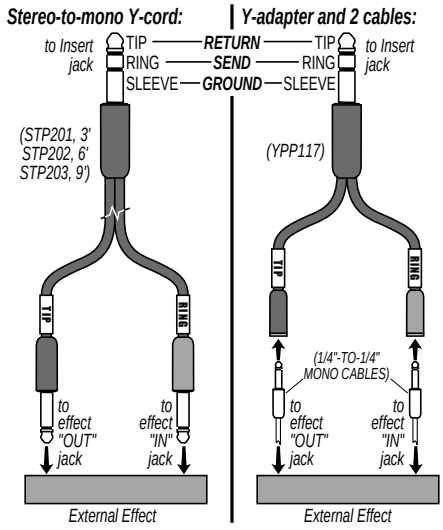
Clean Sounds: Rotate the Gain control fully counter clockwise (the Boost control will be inactive). Use the Volume control to set the output level.

"Crunch" Sounds: Set the Boost control to 11 o'clock and the Gain to 9 o'clock. Use the Volume control to set the output level. (The volume control should be adjusted to a lower setting as the Boost and Gain controls are increased.)

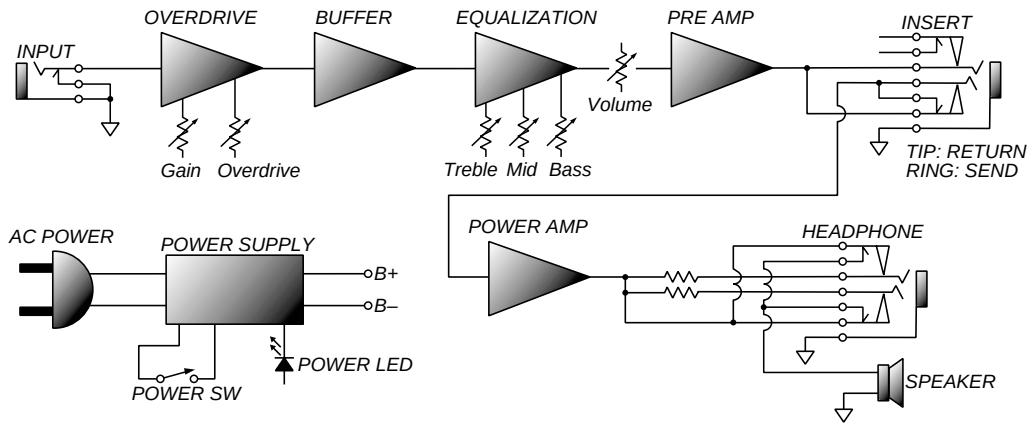
Rhythm Sounds: Set the Boost control around 11 o'clock and the Gain at or near "10". Use the Volume control to set the output level.

Lead Sounds: Set the Boost and Gain controls at or near "10". Use the Volume control to set the output level.

Connecting to the Insert jack: The Insert jack (#8) lets you patch external effects into the amplifier just prior to its power amp stage. Use Crate's STP201, STP202 or STP203 stereo-to-mono Y-cord or an adapter such as Crate's YPP117 and 2 1/4" mono signal cables to connect to the effect as shown:



Block Diagram:



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MX10 TECHNICAL SPECIFICATIONS:

Output Power Rating	10 watts RMS @ 1% THD 14 watts @ 10% THD
Speaker Size	6”
Input Impedance	500k ohms
Minimum Noise	1mV
Maximum Noise	10mV
Distortion	0.9%
Power Requirements	120 VAC, 60Hz, 20VA 100/115VAC, 50/60Hz, 20VA 100/115VAC, 50/60Hz, 20VA
Size and Weight	14” H x 12.5” W x 6” D, 12 lbs.

The MX10 is covered with a durable black Tolex material: wipe it clean with a lint-free cloth. Never spray cleaning agents onto the cabinet. Avoid abrasive cleansers which would damage the finish.

Crate continually develops new products, as well as improves existing ones. For this reason, the specifications and information in this manual are subject to change without notice.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

PRECAUCION
RIESGO DE CORRIENTAZO
NO ABRA

PRECAUCION: PARA REDUCIR EL RIESGO DE INCENDIOS O DESCARGAS ELECTRICAS, NO PERMITA QUE ESTE APARATO QUEDE EXPUESTO A LA LLUVIA O LA HUMEDAD. PARA DISMINUOIR EL RIESGO DE CORRIENTAZO. NO ABRA LA CUBIERTA. NO HAY PIEZAS ADENTRO QUE EL USARIO PUEDO REPARAR DEJE TODO MANTENIMIENTO A LOS TECHNICOS CALIFICADOS.

ATTENTION
RISQUE D'ELECTROCUTION
NE PAS OUVRIR

ATTENTION: PROTÉGEZ CET APPAREIL DE LA PLUIE ET DE L'HUMIDITÉ AFIN D'ÉVITER TOUT RISQUE D'INCENDIE OU D'ELECTROCUTION. POUR REDUIRE D'ELECTROCUTION NE PAS ENLEVER LE COUVERCLE. AUCUNE PIECE INTERNE N'EST REPRABLE PAR L'UTILISATEUR. POUR TOUTE REPARATION, S'ADRESSER A UN TECHNICIEN QUALIFIE.

IMPORTANT SAFETY INSTRUCTIONS

- READ, FOLLOW, HEED, AND KEEP ALL INSTRUCTIONS AND WARNINGS.
- DO NOT OPERATE NEAR ANY HEAT SOURCE AND DO NOT BLOCK ANY VENTILATION OPENINGS ON THIS APPARATUS.
- DO NOT USE THIS APPARATUS NEAR SPLASHING, FALLING, SPRAYING, OR STANDING LIQUIDS.
- CLEAN ONLY WITH LINT-FREE DAMP CLOTH AND DO NOT USE CLEANING AGENTS.
- ONLY CONNECT POWER CORD TO A POLARIZED, SAFETY GROUNDED OUTLET WIRED TO CURRENT ELECTRICAL CODES AND COMPATIBLE WITH VOLTAGE, POWER, AND FREQUENCY REQUIREMENTS STATED ON THE REAR PANEL OF THE APPARATUS.
- PROTECT THE POWER CORD FROM DAMAGE DUE TO BEING WALKED ON, PINCHED, OR STRAINED.
- UNPLUG THE APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.
- ONLY USE ATTACHMENTS, ACCESSORIES, STANDS, OR BRACKETS SPECIFIED BY THE MANUFACTURER FOR SAFE OPERATION AND TO AVOID INJURY.
- THIS APPARATUS DOES NOT OPERATE NORMALLY AND REQUIRES SERVICE WITH ANY PHYSICAL DAMAGE FROM IMPACT OR ANY EXPOSURE TO MOISTURE.
- SERVICE MUST BE PERFORMED BY QUALIFIED PERSONNEL.
- OUR AMPLIFIERS ARE CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS. CONTINUED EXPOSURE TO HIGH SOUND PRESSURE LEVELS CAN CAUSE PERMANENT HEARING IMPAIRMENT OR LOSS. USER CAUTION IS ADVISED AND EAR PROTECTION IS RECOMMENDED IF UNIT IS OPERATED AT HIGH VOLUME.

EXPLANATION OF GRAPHICAL SYMBOLS:
EXPLICACION DE SIMBOLOS GRAFICOS:
EXPLICATION DES SYMBOLES GRAPHIQUES:

= "DANGEROUS VOLTAGE"
"VOLTAJE PELIGROSO"
"DANGER HAUTE TENSION"

= "IT IS NECESSARY FOR THE USER TO REFER TO THE INSTRUCTION MANUAL"
"ES NECESARIO QUE EL USUARIO SE REFIERA AL MANUAL DE INSTRUCCIONES."
"REFERREZ-VOUS AU MANUAL D'UTILISATION"

CRATE

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recyclable

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